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11

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#6 domain name services

198

#7 ((domain name services)&lt;AND&gt;(domain name services and model? and entities&lt;in&gt;metadata))

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Perkins, C.E.;  
Personal Communications, IEEE [see also IEEE Wireless Communications]  
Volume 7, Issue 4, Aug. 2000 Page(s):59 - 61  
Digital Object Identifier 10.1109/98.863997

[AbstractPlus](#) | [References](#) | [Full Text: PDF\(396 KB\)](#) IEEE JNL**2. The ABELS brokering system**

Kumar, A.; Wilson, L.F.; Stephens, T.B.; Sucharitaves, J.;  
Simulation Symposium, 2002. Proceedings. 35th Annual  
14-18 April 2002 Page(s):63 - 71

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Internet Computing, IEEE

Volume 4, Issue 6, Nov.-Dec. 2000 Page(s):57 - 67

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Kaplan, G.;

Spectrum, IEEE

Volume 38, Issue 1, Jan. 2001 Page(s):74 - 76

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Selected Areas in Communications, IEEE Journal on

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Selected Areas in Communications, IEEE Journal on

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Digital Object Identifier 10.1109/JSAC.2003.818806

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Kemmerer, R.A.;

Software Engineering, 2003. Proceedings. 25th International Conference on

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Digital Object Identifier 10.1109/ICSE.2003.1201257

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Computer Networks and Mobile Computing, 2003. ICCNMC 2003. 2003 International Conference on  
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Autonomic Computing Workshop, 2003  
25 June 2003 Page(s):4 - 13  
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Burgess, M.; Canright, G.;  
Integrated Network Management, 2003. IFIP/IEEE Eighth International Symposium on  
24-28 March 2003 Page(s):293 - 305  
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Fang Hao; Zegura, E.W.; Ammar, M.H.;  
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Volume 2, 22-26 April 2001 Page(s):659 - 668 vol.2  
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Dong Xuan; Weijia Jia; Wei Zhao;  
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**1 DNS: Availability, usage, and deployment characteristics of the domain name system**

Jeffrey Pang, James Hendricks, Aditya Akella, Roberto De Prisco, Bruce Maggs, Srinivasan Seshan

October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

Publisher: ACM Press

Full text available: [pdf\(856.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Domain Name System (DNS) is a critical part of the Internet's infrastructure, and is one of the few examples of a robust, highly-scalable, and operational distributed system. Although a few studies have been devoted to characterizing its properties, such as its workload and the stability of the top-level servers, many key components of DNS have not yet been examined. Based on large-scale measurements taken from servers in a large content distribution network, we present a detailed study of ...

**Keywords:** DNS, availability, federated

**2 Distributed environment: Name space models for locating services**

Nigel Hinds, C. V. Ravishankar

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Much of recent work on computer systems has focused on providing transparent resource-sharing in a distributed computing environment. Many of these systems use the server-client model to provide access to data and services. As more distributed services are offered and the demand for sharing increases in these environments, efficient management and accessing schemes become crucial. Locating services makes name service a critical part of access management. This report describes some of the w ...

**3 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 [Distributed environment: A service acquisition mechanism for the client/service model in cygnus](#) 

Rong N. Chang, Chinya V. Ravishankar, Jacob Slonim

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

**Publisher:** IBM Press

Full text available:  pdf(1.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

This report addresses the issues arising when structuring large-scale distributed systems. It examines the client-server paradigm, points out its shortcomings, and proposes a new structuring method called the client-service paradigm. It also describes the principles underlying the design of the Cygnus distributed system.

5 [An architecture for secure wide-area service discovery](#) 

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz

March 2002 **Wireless Networks**, Volume 8 Issue 2/3

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(365.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

**Keywords:** location services, name lookup, network protocols, service discovery

6 [Locating application data across service discovery domains](#) 

 Paul Castro, Benjamin Greenstein, Richard Muntz, Parviz Kermani, Chatschik Bisdikian, Maria Papadopoul

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

**Publisher:** ACM Press

Full text available:  pdf(4.38 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The bulk of proposed pervasive computing devices such as PDAs and cellular telephones operate as thin clients within a larger infrastructure. To access services within their local environment, these devices participate in a service discovery protocol which involves a master directory that registers all services available in the local environment. These directories typically are isolated from each other. Devices that move across service discovery domains have no access to information outside t ...

7 [An embedded domain-specific language for type-safe server-side web scripting](#) 

Peter Thiemann

◆ February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(336.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...

**Keywords:** Interactive Web services, Web programming

8 Distributed file systems: concepts and examples



◆ Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(5.33 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

9 A name service for evolving heterogeneous systems



◆ M. Schwartz, J. Zahorjan, D. Notkin

November 1987 **ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles SOSP '87**, Volume 21

Issue 5

**Publisher:** ACM Press

Full text available:  pdf(1.07 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A prototype implementation has been built as part of the Heterogeneous Computer Systems project at the University of Washington. This service supports RPC binding and other applications in our heterogeneous environment. Measurements of the performance of this prototype show that it is close to that of the underlying name services, due largely to the use of specialized caching techniques.

10 A model for naming, addressing and routing



◆ Bernard M. Hauzeur

December 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(1.42 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Naming and addressing are areas in which there is still a need for clarification. Many definitions for names, addresses, and routes have been proposed, but the exact relations among these concepts are obscure. A taxonomy of names, addresses, and routes is presented. First, we identify names and routes as the essential concepts of communication. Then, addresses are introduced as an intermediate form that eases the process of mapping between names and routes; an original definition of an addr ...

**11 Composable ad hoc location-based services for heterogeneous mobile clients**

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(403.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



**12 Notable computer networks**

John S. Quarterman, Josiah C. Hoskins

October 1986 **Communications of the ACM**, Volume 29 Issue 10

**Publisher:** ACM Press

Full text available:  pdf(4.66 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

**13 Uniform access to Internet directory services**

D. Comer, R. E. Droms

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols SIGCOMM '90**, Volume 20 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(813.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As networks and internetworks of computers expand in size and scope, discovery and location of resources becomes a primary function of the networked computing environment. Static tables describing network resources have been replaced by dynamic directory services, such as X.500 and the Internet Domain Name System. These dynamic directory services provide more timely and accurate information about network resources than static tables. A wide variety of services address various com ...



**14 Naming in dynamic networks: Names, addresses and identities in ambient networks**

Bengt Ahlgren, Lars Eggert, Börje Ohlman, Jarno Rajahalme, Andreas Schieder

September 2005 **Proceedings of the 1st ACM workshop on Dynamic interconnection of networks DIN '05**

**Publisher:** ACM Press

Full text available:  pdf(644.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



*Ambient Networks* interconnect independent realms that may use different local network technologies and may belong to different administrative or legal entities. At the core of these advanced internetworking concepts is a flexible naming architecture based on dynamic indirections between names, addresses and identities. This paper gives an overview of the connectivity abstractions of *Ambient Networks* and then describes its naming architecture in detail, comparing and contrasting the ...

**Keywords:** addressing, ambient networks, bindings, identities, indirection, internetworking, naming, resolution

**15 A self-configuring and self-administering name system with dynamic address assignment**

February 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 1

**Publisher:** ACM Press

Full text available: Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



 pdf(908.57 KB)[review](#)

In this article we present a distributed system that stores name-to-address bindings and provides name resolution to a network of computers. This name system consists of a network of name services that are individually self-configuring and self-administering. The name service consists of an agent program that works in conjunction with the current implementation of the Domain Name System (DNS) program. The DNS agent program automatically configures the Berkeley Internet Name Domain (BIND) process ...

**Keywords:** Berkeley Internet Name Domain, dynamic reconfiguration, name-to-name address binding, self-administering systems, self-configuring systems

**16 File servers for network-based distributed systems** 

 Liba Svobodova  
December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(4.23 MB)

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**17 Distributed systems - programming and management: On remote procedure call** 

Patrícia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**

**Publisher:** IBM Press

Full text available:  pdf(4.52 MB)

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The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

**18 Towards a universal directory service** 

 Keith A. Lantz, Judy L. Edighoffer, Bruce L. Hitson

August 1985 **Proceedings of the fourth annual ACM symposium on Principles of distributed computing**

**Publisher:** ACM Press

Full text available:  pdf(1.18 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**19 Interconnecting heterogeneous computer systems** 

 David Notkin, Andrew P. Black, Edward D. Lazowska, Henry M. Levy, Jan Sanislo, John Zahorjan

March 1988 **Communications of the ACM**, Volume 31 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(1.95 MB)

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A software structure created by the Heterogeneous Computer Systems (HCS) Project at the University of Washington was designed to address the problems of heterogeneity that typically arise in research computing environments.

**20 A taxonomy of issues in name systems design and implementation**



 A. K. Yeo, A. L. Ananda, E. K. Koh  
July 1993 **ACM SIGOPS Operating Systems Review**, Volume 27 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(1.06 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In the last decade, name systems have grown from a single centrally-controlled server providing only host name to physical address mapping, to a complex system consisting of multiple and distributed servers, providing not only name mapping, but also general directory lookup services. These advances are due in part to the increase in size, complexity and heterogeneity of distributed systems. This paper presents a taxonomy of design and implementation issues in building a name system.

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